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TECHSPEC® UV Fused Silica Right Angle Prisms

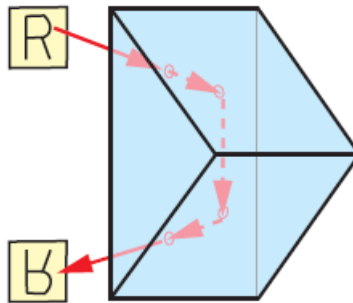
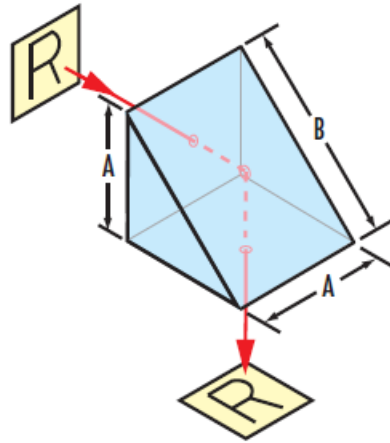

- Ideal for Broadband Applications
- Available with Aluminized and AR Coated Faces
- Sizes Ranging from 5 - 50mm
- Additional [Right Angle Prism](#) Options Available

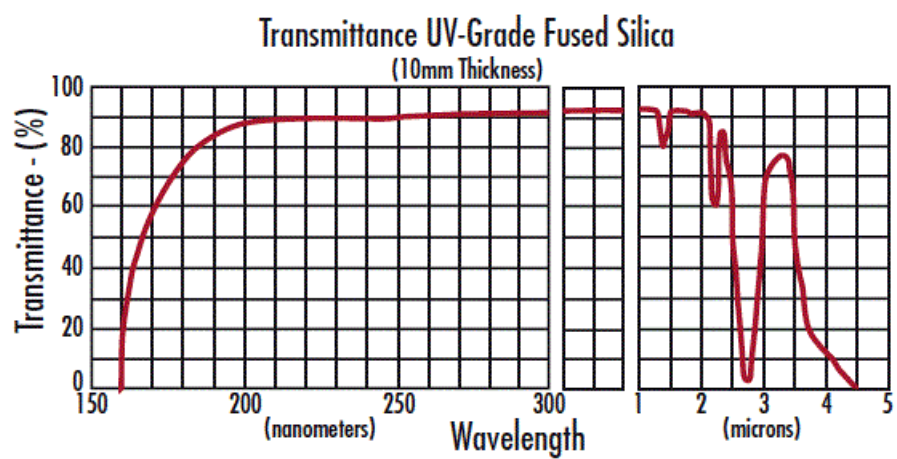
Common Specifications

Physical & Mechanical Properties

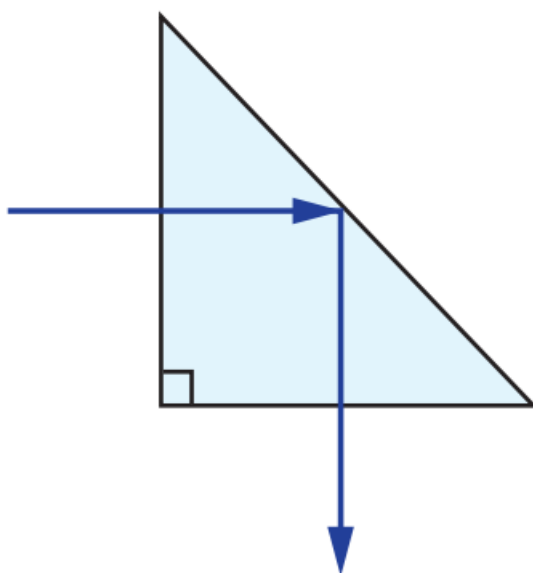
Dimensional Tolerance (mm): ±0.10 Legs	Bevel: Protective as needed
Optical Properties	
Substrate: Fused Silica (Corning 7980)	Surface Quality: 60-40
Angle Tolerance (arcmin): ±5	Pyramid Tolerance (arcmin): ±5
Image Orientation: Left-Handed	Ray Deviation (°): 90
Power (fringes) @ 632.8nm: 1.25	Irregularity (fringes) @ 632.8nm: 0.25

Technical Information

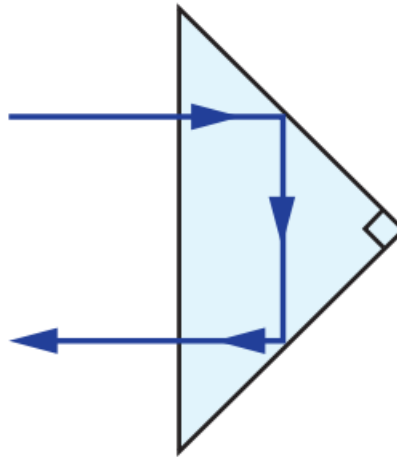




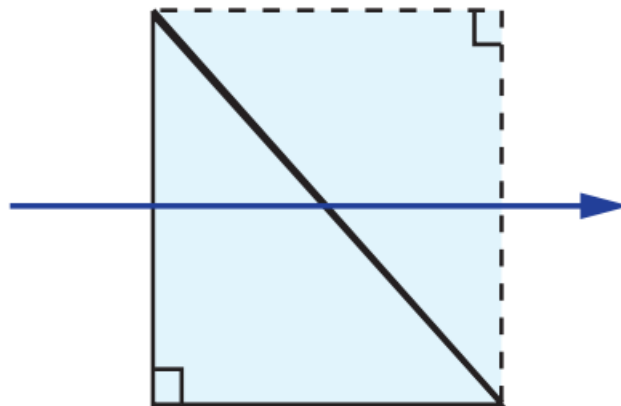
UV FS Transmission Curve



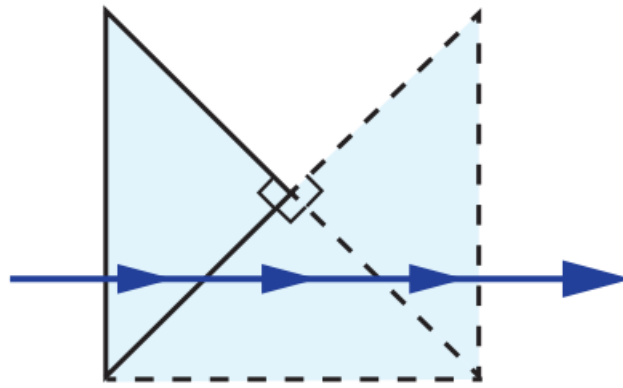
Right Angle Prism Ray Path



Right Angle Prism Ray Path

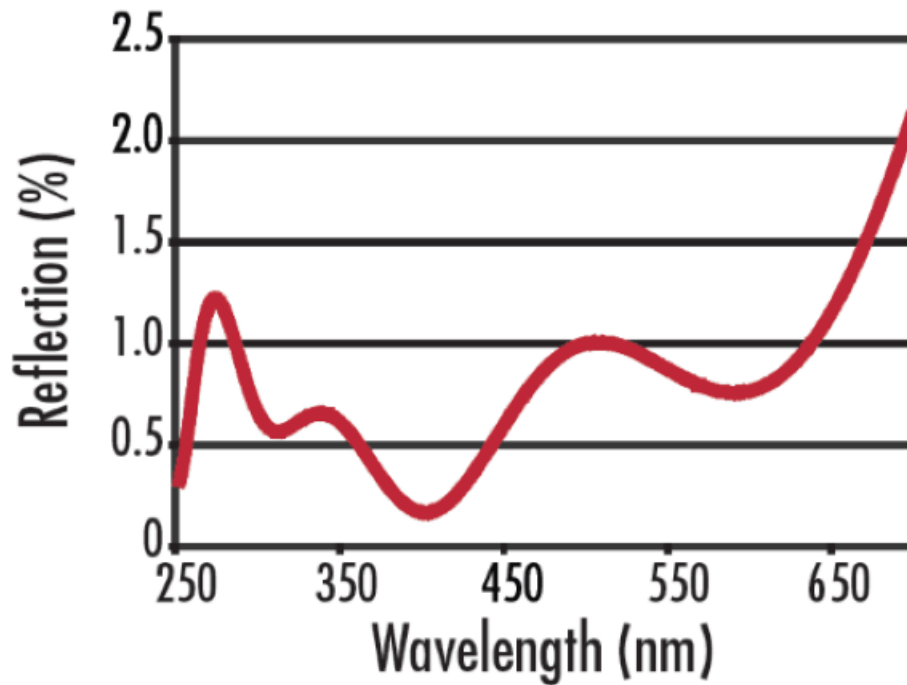


Right Angle Prism Tunnel Diagram



Right Angle Prism Tunnel Diagram

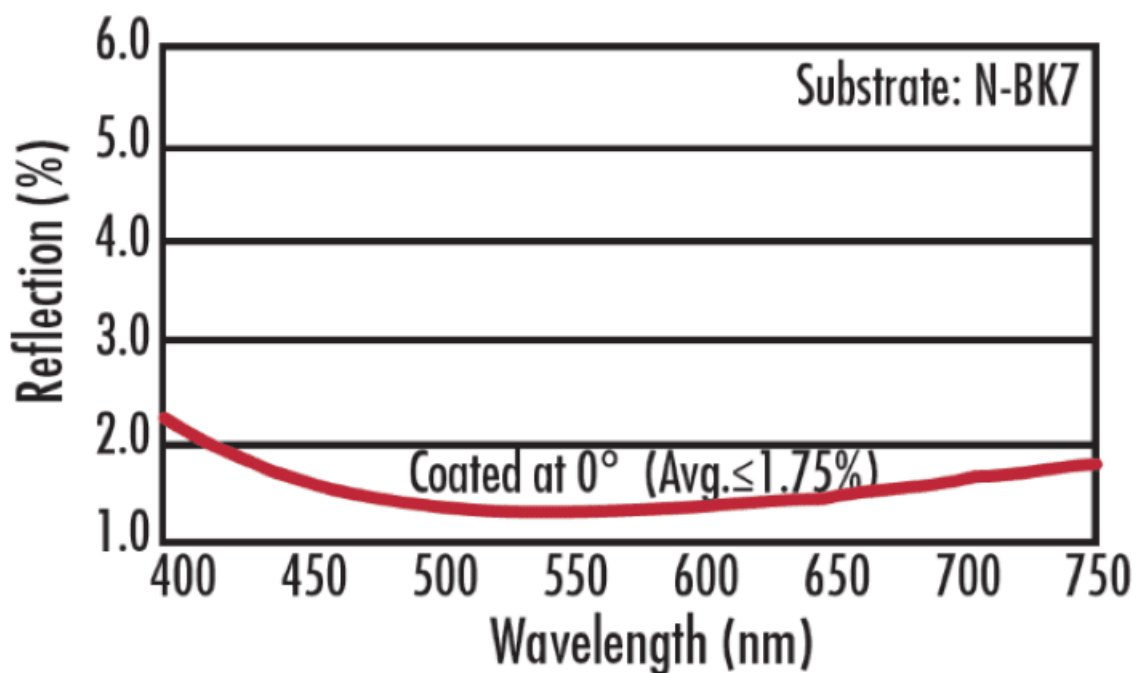
UV-VIS Coating
 $R_{\text{abs}} < 1.0\%$ @ 350 - 450nm, $R_{\text{avg}} < 1.5\%$ @ 250 - 700nm
Damage Threshold, Reference: $3\text{J}/\text{cm}^2$ @ 355nm, 10ns, 10Hz
 $5\text{J}/\text{cm}^2$ @ 532nm, 10ns



MgF₂ Coating

$R_{avg} \leq 1.75\%$ @ 400 - 700nm

Damage Threshold, Reference: 10J/cm² @ 532nm, 10ns, 10Hz



Products

Length of Legs (mm)	Length of Hypotenuse (mm)	Coating	Stock Number	Price	Buy
5.00	7.10	Uncoated	#45-071	S\$118.30 Volume Pricing	20+ In Stock
10.00	14.10	Uncoated	#45-072	S\$121.80 Volume Pricing	20+ In Stock
12.50	17.70	Uncoated	#47-784	S\$133.70 Volume Pricing	20+ In Stock
15.00	21.20	Uncoated	#45-184	S\$141.40 Volume Pricing	20+ In Stock
20.00	28.30	Uncoated	#47-785	S\$147.00 Volume Pricing	20+ In Stock
25.00	35.40	Uncoated	#47-786	S\$166.60 Volume Pricing	20+ In Stock
30.00	42.40	Uncoated	#47-787	S\$263.20 Volume Pricing	20+ In Stock
40.00	56.60	Uncoated	#47-788	S\$372.40 Volume Pricing	10 In Stock
50.00	70.70	Uncoated	#47-789	S\$421.40 Volume Pricing	20+ In Stock
5.00	7.10	MgF ₂ & Aluminized	#47-791	S\$173.60 Volume Pricing	6 In Stock
10.00	14.10	MgF ₂ & Aluminized	#47-792	S\$173.60 Volume Pricing	6 In Stock
12.50	17.70	MgF ₂ & Aluminized	#47-793	S\$186.20 Volume Pricing	2 In Stock
15.00	21.20	MgF ₂ & Aluminized	#47-794	S\$196.00 Volume Pricing	20+ In Stock
20.00	28.30	MgF ₂ & Aluminized	#47-795	S\$198.80 Volume Pricing	16 In Stock
25.00	35.40	MgF ₂ & Aluminized	#47-796	S\$218.40 Volume Pricing	14 In Stock
30.00	42.40	MgF ₂ & Aluminized	#47-797	S\$316.40 Volume Pricing	Contact Us
50.00	70.70	MgF ₂ & Aluminized	#47-799	S\$473.20 Volume Pricing	1 In Stock



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